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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,023	08/04/2003	Drew T. De Shiell	0EKM-104599 3807	
30764	7590 12/30/2004		EXAM	INER
SHEPPARD, MULLIN, RICHTER & HAMPTON LLP 333 SOUTH HOPE STREET			PASSANITI, SEBASTIANO	
48TH FLOOR			ART UNIT	PAPER NUMBER
LOS ANGELES, CA 90071-1448			3711	<u> </u>

DATE MAILED: 12/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		App	olication No.		Applicant(s)	
		10/	634,023		DE SHIELL ET AL	
	Office Action Summary	Exa	miner	•	Art Unit	
•		Seb	astiano Passani	ti	3711	
Ti	he MAILING DATE of this commu eply	nication appears	on the cover sh	eet with the co	orrespondence ad	dress
A SHOR' THE MAI - Extension after SIX (- If the perio - If NO perio - Failure to Any reply	TENED STATUTORY PERIOD F LING DATE OF THIS COMMUN s of time may be available under the provision 6) MONTHS from the mailing date of this com od for reply specified above is less than thirty (od for reply specified above, the maximum s reply within the set or extended period for repl received by the Office later than three months tent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). Imunication. 30) days, a reply within tatutory period will apply will, by statute, cause	in no event, however, the statutory minimum y and will expire SIX (the application to bec	may a reply be time n of thirty (30) days 6) MONTHS from to ome ABANDONED	ely filed will be considered timely he mailing date of this co o (35 U.S.C. § 133).	y. ommunication.
Status						
1)⊠ Re	sponsive to communication(s) fil	ed on <u>08 Octo</u> be	er 2004.			
·	•	2b) This action				•
<i>,</i> —						
Disposition	of Claims					
4a) 5)☐ Cla 6)⊠ Cla 7)⊠ Cla	tim(s) <u>1-19</u> is/are pending in the Of the above claim(s) <u>14-19</u> is/are allowed. tim(s) <u>1-3</u> , <u>8</u> and <u>9</u> is/are rejected tim(s) <u>4-7 and 10-13</u> is/are objectim(s) <u>are subject to restrictions.</u>	re withdrawn fro				
Application	Papers					
10)☐ The App Rep	specification is objected to by the drawing(s) filed on is/are olicant may not request that any objected to athor or declaration is objected to	: a) accepted action to the drawing the correction is	ng(s) be held in a required if the dra	beyance. See awing(s) is obje	37 CFR 1.85(a). ected to. See 37 CF	
Priority und	er 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	•		_			
2) Notice of I	References Cited (PTO-892) Draftsperson's Patent Drawing Review (I n Disclosure Statement(s) (PTO-1449 or s)/Mail Date <u>09/02/04</u> .		Pape)-152)

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DETAILED ACTION

This Office action is responsive to communication received 10/08/2004 – Election.

Claims 1-19 remain pending.

Applicant's election without traverse of Group I (claims 1-13) in the reply filed on 10/08/2004 is acknowledged.

Claims 14-19 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 10/08/2004.

Following is an action on the MERITS:

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double

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patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1 and 8 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of copending [†] Application No. 10/316,453. This is a <u>provisional</u> obviousness-type double patenting rejection. The claimed invention of the copending '453 application differs from the instant invention in that the claimed invention of the '453 application requires that the crown be formed of a non-metallic material. The selection of a specific material, in this case the selection of a specific composite material, as required by claims 1 and 8, would have been obvious to the skilled artisan, since it has been held to be within the level of one of ordinary skill in the art to choose a material for a particular application based upon the natural properties of the material. See <u>In re Hopkins</u> 145 USPQ 140.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 8 are rejected and claims 29-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Su in view of Lo ('331). The patent to Su differs from

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the claimed invention in that Su does not detail the thickness dimension of the crown, as required by claims 1 and 8, as well as the specific claimed material make-up of the head. Note. Su acknowledges that the diverse elements of the head, i.e., the crown, sole, face and body may comprise a cast or forged metal such as titanium, steel or an aluminum alloy. Alternatively, these club head parts may comprise a composite material (col. 5, lines 38-58). Lo shows it to be old in the art to fabricate the crown portion from a composite cover that is 1.0 and 3.5 mm thick (col. 3, lines 1-20). In view of the patent to Lo, one of ordinary skill in the art would have found it obvious to modify the device in Su by dimensioning the crown portion based upon specific requirements for the weight and rigidity of the head. Note, both Su and Lo are concerned with maneuvering the location of the center of gravity of the head by incorporating a lightweight crown material within the body. The selection of a specific material, as required by claims would have been obvious to the skilled artisan, since it has been held to be within the level of one of ordinary skill in the art to choose a material for a particular application based upon the natural properties of the material. See In re Hopkins 145 USPQ 140. Further, in this instance, the prior art already guides the skilled artisan to construct a club head with metallic elements for at least the body portion and further instructs the club maker that the face may be metallic or composite in nature, while the crown should be composite to help reduce weight and alter the location of the center of gravity. As a plethora of composite materials are known in the art, the skilled artisan would have simply used a material that is appropriate for a specific club head based upon, for example, manufacturing techniques and cost.

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Moreover, the prior art advances a teaching of using at least two materials in the construction of at least one part. Specific to the coefficient of restitution (COR) required by claims 1 and 8, it is well-recognized in the golf club art that clubs meeting USGA requirements must not exceed the legal limit for COR, but may include a COR of at least 0.80. Thus, it would have been obvious to modify Su to include a COR of at least 0.80 to meet the USGA regulations. Specific to the claimed volume of the head required by claims 1 and 8, it is well established that volume ranges in hollow metal club heads currently exceed at least 150 cc.

Claims 2, 3 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Su in view of Lo ('331) and Masanori (JP 2002-165902). Su in view of Lo has been discussed above. Su, as modified, lacks an annular lip and a recessed support. These claimed features are clearly taught by the secondary reference to Masanori, whereby the crown surface is attached to the main head body via a recessed support and annular lip configuration. See Figures 4-6 in Masanori. It is clear that this arrangement helps to provide a positive orientation of the crown with respect to the upper head portion so that a brazing operation may be effectively employed to attach the crown to the main head body. In view of the patent to Masanori, it would have been obvious to modify the device in the cited art reference to Su by fixing the crown to the main body using an annular lip and recessed support design, the motivation being to simply take advantage of another common joining technique. Note, each of Su, Lo and Masanori are concerned with providing a composite crown attached to a metallic main

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body in order to lower the location of the center of gravity. Thus, to have combined these references for the reasons advanced above would have been obvious.

Claims 4-7 and 10-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sebastiano Passaniti whose telephone number is 571-272-4413. The examiner can normally be reached on Mon-Fri (6:30-3:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Vidovich can be reached on 571-272-4415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> **Primary Examiner** Art Unit 3711

S.Passaniti/sp December 23, 2004

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

Application No.:	Applicant:		
Certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either: A. { } An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel	Application No.:	Filed:	
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certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either: A. { } An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel		, a	·
A. { } An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel	(Name of Assignoc)	(Type of Assignor, e.g., corporation, purmenting, university, government a	gency, etc.)
Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached. OR B. { } A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below: 1. From:, To:	certifies that it is the assignee of the entire	e right, title and interest in the patent application identified above by vi	rtue of either:
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The document was recorded in the Patent and Trademark Office at Reel, frame, or for which a copy thereof is attached. 2. From: To:	B. [] A chain of title from the inventor	(s), of the patent application identified above, to the current assignee as	shown below:
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Reel, Frame, or for which a copy thereof is attached. [] Additional documents in the chain of title are listed on a supplemental sheet. [] Copies of assignments or other documents in the chain of title are attached. The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above. The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee. I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon. Date: Name: Title: Title:	3. From:	To:	
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PTO/SB/25 (10-00)
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